

The Accession Medical Standards Analysis & Research Activity (AMSARA): AFEB Brief on Accession Dental Standards



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Agenda

- Background
- Dental Accession Standards per DoD Instruction 6130.4, Jan 2005
- Dental Disqualifications
- Dental Waivers
- Dental Existed Prior to Service Discharges
- Dental Retention Standard per AR 40-501, 16 Feb 06, Air Force Instruction 48-123, 22 May 01
- Conclusion

Question to the AFEB

- 3. I would like the Armed Forces Epidemiological Board (AFEB) to review the scientific literature and the evidence behind the various dental caries risk indices to determine an appropriate periodicity and methodology for routine dental examinations in the Army. Please specifically address the following questions.
 - a. Is a single fixed period between examinations warranted based on the data or should dental examination recall, based on the individual service member's clinical history or risk indicators, be employed to more cost effectively achieve the same level of dental readiness?

Background

● Dental Accession Standards:

- E1.7.1. Current diseases of the jaws or associated tissues that prevent normal functioning are disqualifying. Those diseases include but are not limited to **temporomandibular disorders (524.6)** and/or **myofascial pain** that have not been corrected.

- E1.7.2. Current **severe malocclusion (524)**, which interferes with normal mastication or requires early and protracted treatment, or a relationship between the mandible and maxilla that prevents satisfactory future prosthetic replacement is disqualifying.

Background

● Dental Accession Standards:

- E1.7.3. Current insufficient natural healthy teeth (521) or lack of a serviceable prosthesis that prevents adequate incision and mastication of a normal diet and/or includes complex (multiple fixtures) dental implant systems with associated complications are disqualifying. Individuals undergoing endodontic care are acceptable for entry in the Delayed Entry Program only if a civilian or military provider provides documentation that active endodontic treatment shall be completed prior to being sworn into active duty.

Background

● Dental Accession Standards:

- E1.7.4. Current orthodontic appliances for continued treatment (V53.4) are disqualifying. Retainer appliances are permissible, provided all active orthodontic treatment has been satisfactorily completed. Individuals undergoing orthodontic care are acceptable for enlistment in the Delayed Entry Program only if a civilian or military orthodontist provides documentation that active orthodontic treatment shall be completed prior to being sworn into active duty

Background

● Medical Accession Process

- History and physical examination
- Medical Officer performs an oral and dental exam
- No routine panoramic or bitewing Xrays
- Dental Class is not assigned
- May refer to a dentist if indicated by history or exam
- If a disqualifying dental condition is detected, a dental waiver may be requested after appropriate consultation
- Dental evaluation of new recruits varies by Service

Dental Disqualifications:

Army

Two-Year Average (2003 & 2004)

| Diagnosis | ICD-9 Code | Count per year | % of Total DQ's |
|--|------------|--|-----------------|
| Teeth | 521 | 160 | 56 |
| Caries | 521.0 | 54 | 19 |
| Other teeth | 521.1-9 | 6 | 2 |
| Dentofacial | 524 | 11 | 4 |
| Other Dentofacial | 524.0-9 | 4 | 1 |
| TMJ* | 524.6 | 13 | 5 |
| Orthodontic Devices | V53.4 | 31 | 11 |
| Total Dental DQ | NA | 278 | 100 |
| *Temporomandibular Joint Disorder Total Individuals | NA | ~83,000 AD 2598 NPS applicants per year | NA |

Dental Disqualifications:

Navy

Two-Year Average (2003 & 2004)

| Diagnosis | ICD-9 Code | Count per Year | % of Total DQ's |
|-----------------------------------|------------|--------------------------------------|-----------------|
| Teeth | 521 | 35 | 45 |
| Caries | 521.0 | 18 | 23 |
| Other teeth | 521.1-9 | 2 | 3 |
| Dentofacial | 524 | 6 | 8 |
| Other Dentofacial | 524.0-9 | 0 | 0 |
| TMJ* | 524.6 | 7 | 9 |
| Orthodontic Devices | V53.4 | 12 | 15 |
| Total Dental DQ | NA | 78 | 100 |
| *Temporomandibular Joint Disorder | NA | ~ 52,000 AD, NPS applicants per year | 749 NA |
| Total Individuals | | | |

Dental Disqualifications: Marine Corps

Two-Year Average (2003 & 2004)

| Diagnosis | ICD-9 Code | Count per Year | % of Total DQ's |
|---|------------|----------------------|-----------------|
| Teeth | 521 | 26 | 49 |
| Caries | 521.0 | 10 | 19 |
| Other teeth | 521.1-9 | 0 | 0 |
| Dentofacial | 524 | 3 | 6 |
| Other Dentofacial | 524.0-9 | 5 | 9 |
| TMJ* | 524.6 | 3 | 6 |
| Orthodontic Devices | V53.4 | 9 | 17 |
| Total Dental DQ | NA | 53 | 100 |
| *Temporomandibular Joint Disorder Total Individuals | NA | ~ 41,000 AD, 46 year | 10 NA |

Dental Disqualifications: Air Force

Two-Year Average (2003 & 2004)

| Diagnosis | ICD-9 Code | Count per Year | % of Total DQ's |
|---|------------|--------------------------------------|-----------------|
| Teeth | 521 | 23 | 43 |
| Caries | 521.0 | 10 | 19 |
| Other teeth | 521.1-9 | 0 | 0 |
| Dentofacial | 524 | 3 | 6 |
| Other Dentofacial | 524.0-9 | 3 | 6 |
| TMJ* | 524.6 | 5 | 9 |
| Orthodontic Devices | V53.4 | 9 | 17 |
| Total Dental DQ | NA | 53 | 100 |
| *Temporomandibular Joint Disorder Total Individuals | NA | ~ 38,000 AD, NPS applicants per year | 46 11 NA |

Dental Waivers: Army Five-Year Average (2000-2004)

| Diagnosis | ICD-9 Code | Considered per Year | Approved per Year |
|---|------------|---------------------|-------------------|
| Teeth | 521 | 50 | 17 |
| Caries | 521.0 | 2 | 0 |
| Other teeth | 521.1-9 | 1 | 0 |
| Dentofacial | 524 | 3 | 2 |
| Other Dentofacial | 524.0-9 | 4 | 3 |
| TMJ* | 524.6 | 5 | 3 |
| Orthodontic Devices | V53.4 | 3 | 3 |
| Total conditions | NA | 68 | 28 |
| *Temporomandibular Joint Disorder Individuals | NA | 68 | 12 |
| | | | 27 |

Dental Waivers: Navy Five-Year Average (2000-2004)

| Diagnosis | ICD-9 Code | Considered per Year | Approved per Year |
|---|------------|---------------------|-------------------|
| Teeth | 521 | 3 | 1 |
| Caries | 521.0 | 10 | 4 |
| Other teeth | 521.1-9 | 0 | 0 |
| Dentofacial | 524 | 1 | 1 |
| Other Dentofacial | 524.0-9 | 1 | 1 |
| TMJ* | 524.6 | 2 | 1 |
| Orthodontic Devices | V53.4 | 9 | 5 |
| Total conditions | NA | 26 | 12 |
| *Temporomandibular Joint Disorder Individuals | NA | 25 | 13 |
| | | | 11 |

Dental Waivers: Marine Corps Five-Year Average (2000-2004)

| Diagnosis | ICD-9 Code | Considered per Year | Approved per Year |
|---|------------|---------------------|-------------------|
| Teeth | 521 | 4 | 1 |
| Caries | 521.0 | 0 | 0 |
| Other teeth | 521.1-9 | 0 | 0 |
| Dentofacial | 524 | 0 | 0 |
| Other Dentofacial | 524.0-9 | 0 | 0 |
| TMJ* | 524.6 | 0 | 0 |
| Orthodontic Devices | V53.4 | 11 | 6 |
| Total conditions | NA | 16 | 8 |
| *Temporomandibular Joint Disorder Individuals | NA | 15 | 14 |

Dental Waivers: Air Force Five-Year Average (2000-2004)

| Diagnosis | ICD-9 Code | Considered per Year | Approved per Year |
|---------------------|---------------------------------|---------------------|-------------------|
| Teeth | 521 | 0 | 0 |
| Caries | 521.0 | 1 | 0 |
| Other teeth | 521.1-9 | 0 | 0 |
| Dentofacial | 524 | 0 | 0 |
| Other Dentofacial | 524.0-9 | 5 | 4 |
| TMJ* | 524.6 | 4 | 2 |
| Orthodontic Devices | V53.4 | 0 | 0 |
| Total conditions | NA | 9 | 7 |
| *Total Individuals | Total mandibular Joint Disorder | 6 | 15 |

Dental EPTS: Army Five-Year Average (2000-2004)

| Diagnosis | ICD-9 Code | Average per Year |
|---------------------|------------|------------------|
| Teeth | 521 | 5.6 |
| Dentofacial | 524 | 0.2 |
| TMJ* | 524.6 | 7.6 |
| Orthodontic Devices | V53.4 | 0 |
| Total conditions | NA | 13.4 |
| Total Individuals | NA | 13.2 |

*Temporomandibular Joint Disorder

Dental EPTS: Navy Five-Year Average (2000-2004)

| Diagnosis | ICD-9 Code | Average per Year |
|---------------------|------------|------------------|
| Teeth | 521 | 0.2 |
| Dentofacial | 524 | 0.2 |
| TMJ* | 524.6 | 0.8 |
| Orthodontic Devices | V53.4 | 0.2 |
| Total conditions | NA | 1.4 |
| Total Individuals | NA | 1.4 |

*Temporomandibular Joint Disorder

Dental EPTS: Marine Corps Five-Year Average (2000-2004)

| Diagnosis | ICD-9 Code | Average per Year |
|---------------------|------------|------------------|
| Teeth | 521 | 3.2 |
| Dentofacial | 524 | 2.2 |
| TMJ* | 524.6 | 7 |
| Orthodontic Devices | V53.4 | 0.2 |
| Total conditions | NA | 12.6 |
| Total Individuals | NA | 12.2 |

*Temporomandibular Joint Disorder

Dental EPTS: Air Force Five-Year Average (2000-2004)

| Diagnosis | ICD-9 Code | Average per Year |
|---------------------|------------|------------------|
| Teeth | 521 | 0.2 |
| Dentofacial | 524 | 0.2 |
| TMJ* | 524.6 | 1.6 |
| Orthodontic Devices | V53.4 | 0 |
| Total conditions | NA | 2 |
| Total Individuals | NA | 2 |

*Temporomandibular Joint Disorder

Dental retention Standards per AR 40-501, 16 Feb 06

- The causes for referral to a Medical Evaluation Board are diseases of the jaws, periodontium, or associated tissues when, following restorative surgery, there are residuals that are incapacitating or interfere with the individual's satisfactory performance of military duty
- Applies to Army and Navy & MC
- Air Force Instruction 48-123 is similar

Conclusion

- Dental disqualifications, waivers and EPTS discharges are relatively rare for each Service, but do vary by year and by diagnosis
- MEPCOM does not formally assess dental classification during medical accession exam
- Dental panograms and bitewings are not performed at MEPS exam, but are deferred to training sites
- AMSARA does not have access to dental classification codes of trainees



Questions?